

## Claims

Please amend the claims to read as follows:

1. (Currently amended) A computer program product, tangibly embodied in a machine readable storage device, the computer program product comprising instructions operable to cause data processing apparatus to perform operations comprising:

receiving a plurality of process data items, each process data item being associated with a component of a plurality of components operating in a distributed computer system and executing a sequence of related steps specifying a process, the process being separate and independent from the computer program product, each process data item being part of a respective process data stream comprising application data and having been collected by an agent without altering the process data stream;

for each process data item, identifying a corresponding process instance with which the process data item is associated, the corresponding process instance being a single execution of a corresponding process;

comparing in accordance with a plurality of predefined rules each received process data item with one or more other received process data items to identify common application data;

grouping the process data items that are associated with a first process instance into a first group a plurality of process data items having common application data; and

discovering a first process instance associated with the first group of process data items, the first process instance being a single execution of a sequence of related steps carried out in the distributed computer system; and

generating a reconstruction of the first process instance based on the process data items in the first group.

2. (Original) The computer program product of claim 1, wherein the operations further comprise:

modeling a process based on the reconstruction of the first process instance.

3. (Currently amended) The computer program product of claim 1, wherein the operations further comprise:

monitoring the first process instance based on the reconstruction of the first process instance process data items in the first group.

4. (Original) The computer program product of claim 3, wherein the process data items are collected by the agent upon the occurrence of a predetermined condition, and wherein monitoring the first process instance comprises modifying the predetermined condition.

5. (Original) The computer program product of claim 3, wherein the process data items have a first type, and wherein monitoring the first process instance further comprises specifying a second type of process data item for the agent to collect.

6. (Original) The computer program product of claim 3, wherein the agent is associated with a first tracking point, and wherein monitoring the first process instance further comprises specifying a second tracking point with which to associate the agent.

7. (Original) The computer program product of claim 3, wherein the agent is associated with a first tracking point, and wherein monitoring the first process instance further comprises specifying a second tracking point with which to associate a second agent.

8. (Currently amended) The computer program product of claim 2, wherein the operations further comprise generating a reconstruction of discovering a second process instance based on the-a plurality of process data items grouped in a second group, and wherein modeling the process is further based on the-a reconstruction of the second process instance.

9. (Currently amended) The computer program product of claim 1, wherein the operations further comprise:

receiving a plurality of additional process data items associated with a plurality of components operating in the distributed computer system, each additional process data item comprising application data and having been collected by a second agent;

for each additional process data item, identifying a process instance with which the additional process data item is associated; and

comparing in accordance with the plurality of predefined rules each received additional process data item with one or more other received process data items to identify common application data;

grouping into the first group a plurality of the received additional process data items that are associated with the first process instance with the have common application data with the process data items from the first group.

10. (Currently amended) A computer program product, tangibly embodied in machine readable storage device, the computer program product comprising instructions operable to cause data processing apparatus to perform operations comprising:

receiving a specification of a predetermined condition;

upon the occurrence of the predetermined condition, collecting a plurality of process data items, each process data item being associated with a component of a plurality of components operating in a distributed computer system and executing a sequence of related steps specifying a process, the process being separate and independent from the computer program product, each process data item comprising application data being part of a respective process data stream, wherein collecting the process data items does not alter the process data stream; and

transferring the process data items to a central system operable to discover and reconstruct a corresponding process instance based on common application data found in the process data items, the process instance being a single execution of the process a sequence of related steps carried out in the distributed computer system.

11. (Original) The computer program product of claim 10, wherein the operation of collecting the process data items occurs without modifying the component.

12. (Original) The computer program product of claim 10, wherein the operations further comprise:

receiving a specification of a second predetermined condition; and  
upon the occurrence of the second predetermined condition, collecting additional process data items associated with the component.

13. (Original) The computer program product of claim 10, wherein the operations further comprise:

receiving a specification of a second component;  
upon the occurrence of another predetermined condition, collecting other process data items associated with the second component; and  
transferring the other process data items to the central system.

14. (Currently amended) A method of monitoring an autonomous sequence of related steps, executed using a plurality of components operating in a distributed computer system specifying a process, the method comprising:

~~using an agent to collect a plurality of process data items, each process data item being associated with a component of a plurality of components operating in a distributed computer system and executing a sequence of related steps specifying a process, the process being separate and independent from the agent, each process data item comprising application data being part of a respective process data stream, wherein collecting the process data items does not alter the process data stream;~~

~~transferring the process data items from the agent to a central system, the process being separate and independent from the central system;~~

~~for each process data item transferred to the central system, identifying a corresponding process instance with which the process data item is associated, the corresponding process instance being a single execution of a corresponding process;~~

~~comparing in accordance with a plurality of predefined rules each transferred process data item with one or more other transferred process data items to identify common application~~

data;

grouping the process data items that are associated with a first process instance into a first group in the central system a plurality of process data items having common application data; and

discovering a first process instance associated with the first group of process data items, the first process instance being a single execution of a sequence of related steps carried out in the distributed computer system; and

generating a reconstruction of the first process instance based on the process data items in the first group.

15. (Currently amended) A method of monitoring an autonomous sequence of related steps, executed using a plurality of components operating in a distributed computer system specifying a process, the method comprising:

receiving a plurality of process data items, each process data item being associated with a component of a plurality of components operating in a distributed computer system and executing a sequence of related steps specifying a process, the process being separate and independent from the computer program product, each process data item being part of a respective process data stream comprising application data and having been collected by an agent without altering the process;

for each process data item, identifying a corresponding process instance with which the process data item is associated, the corresponding process instance being a single execution of a corresponding process;

comparing in accordance with a plurality of predefined rules each received process data item with one or more other received process data items to identify common application data;

grouping the process data items that are associated with a first process instance into a first group a plurality of process data items having common application data; and

discovering a first process instance associated with the first group of process data items, the first process instance being a single execution of a sequence of related steps carried out in the distributed computer system; and

generating a reconstruction of reconstructing the first process instance based on the process data items in the first group.

16. (Original) The method of claim 15, wherein the method further comprises:  
modeling a process based on the reconstruction of the first process instance.

17. (Currently amended) The method of claim 15, wherein the method further comprises:  
monitoring the first process instance based on the ~~reconstruction of the first process instance~~  
~~process data items in the first group~~.

18. (Currently amended) A method of monitoring an autonomous sequence of related steps, executed using a plurality of components operating in a distributed computer system specifying a process, the method comprising:

receiving a specification of a predetermined condition;

upon the occurrence of the predetermined condition, collecting a plurality of process data items, ~~each process data item being~~ associated with a component of a plurality of components operating in a distributed computer system ~~and executing a sequence of related steps specifying a process, the process being separate and independent from the computer program product, each process data item comprising application data being part of a respective process data stream,~~ wherein collecting the process data items does not alter the process data stream; and

transferring the process data items to a central system operable to discover and reconstruct a corresponding process instance based on common application data found in the process data items, the process instance being a single execution of the ~~process a sequence of related steps carried out in the distributed computer system~~.

19. (Currently amended) An apparatus comprising:

means for receiving a plurality of process data items, ~~each process data item being associated with a component of a plurality of components operating in a distributed computer system and executing a sequence of related steps specifying a process, the process being separate and independent from the computer program product, each process data item being part of a~~

respective process data stream comprising application data and having been collected by an agent without altering the process;

means for identifying a corresponding process instance with which each process data item is associated, the corresponding process instance being a single execution of a corresponding process;

comparing in accordance with a plurality of predefined rules each received process data item with one or more other received process data items to identify common application data;

means for grouping the process data items that are associated with a first process instance into a first group a plurality of process data items having common application data; and

means for discovering a first process instance associated with the first group of process data items, the first process instance being a single execution of a sequence of related steps carried out in the distributed computer system; and

means for generating a reconstruction of reconstructing the first process instance based on the process data items in the first group.

20. (Original) The apparatus of claim 19, further comprising:

means for modeling a process based on the reconstruction of the first process instance.

21. (Currently amended) The system of claim 19, wherein the system further comprises:

means for monitoring the first process instance based on the reconstruction of the first process instance process data items in the first group.

22. (Currently amended) A system for monitoring an autonomous sequence of related steps, executed using a plurality of components operating in a distributed computer system specifying a process, the system comprising:

means for receiving a specification of a predetermined condition;

means for, upon the occurrence of the predetermined condition, collecting a plurality of process data items upon the occurrence of a predetermined condition, each process data item associated with a component of a plurality of components operating in a distributed computer system and executing a sequence of related steps specifying a process, the process being separate

~~and independent from the computer program product, each process data item comprising application data being part of a respective process data stream, wherein collecting the process data items does not alter the process data stream;~~ and

means for transferring the process data items to a central system operable to discover and reconstruct a ~~corresponding~~ process instance based on the process data items, the process instance being a single execution of ~~the process~~ a sequence of related steps carried out in the distributed computer system.